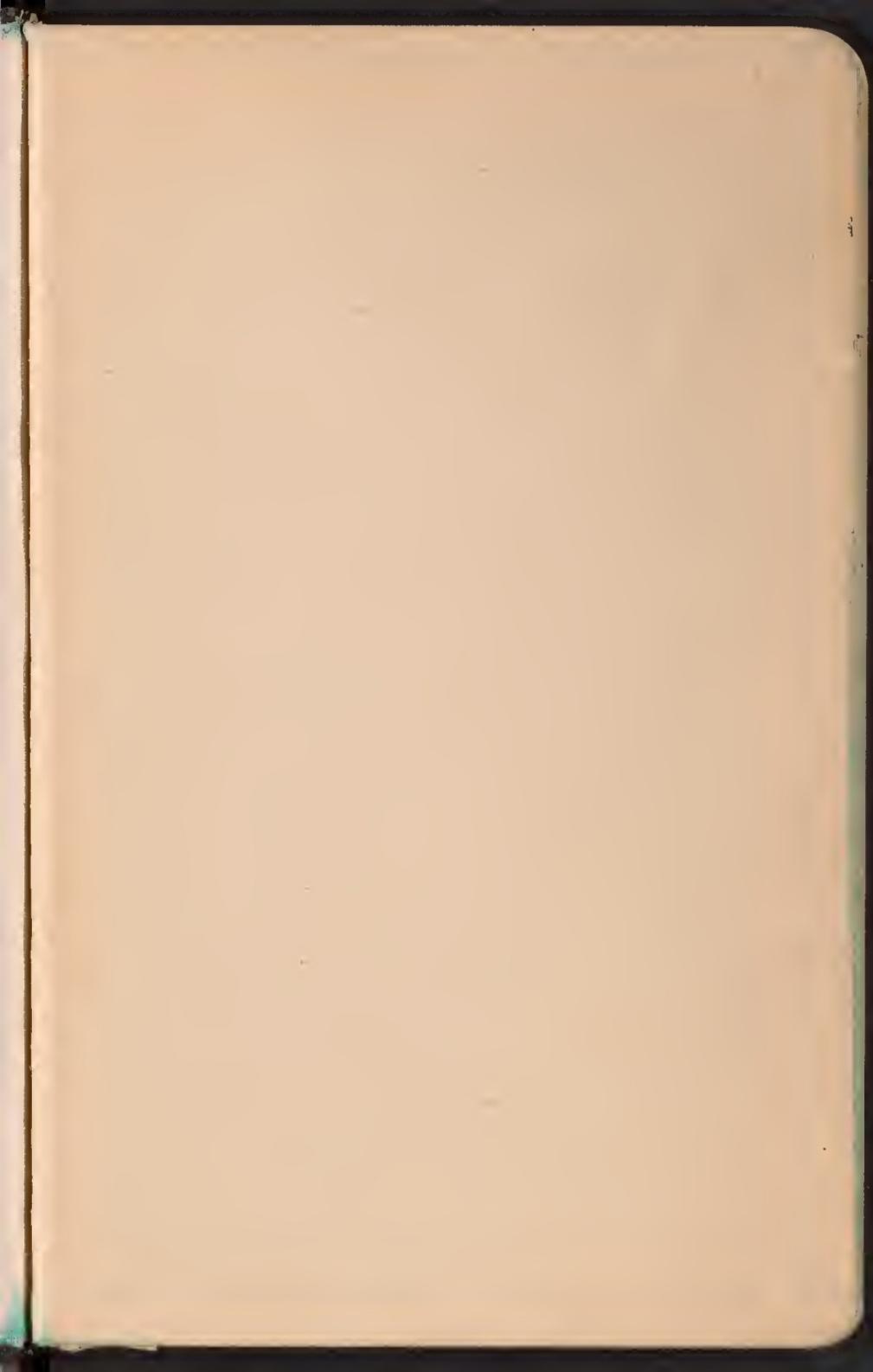
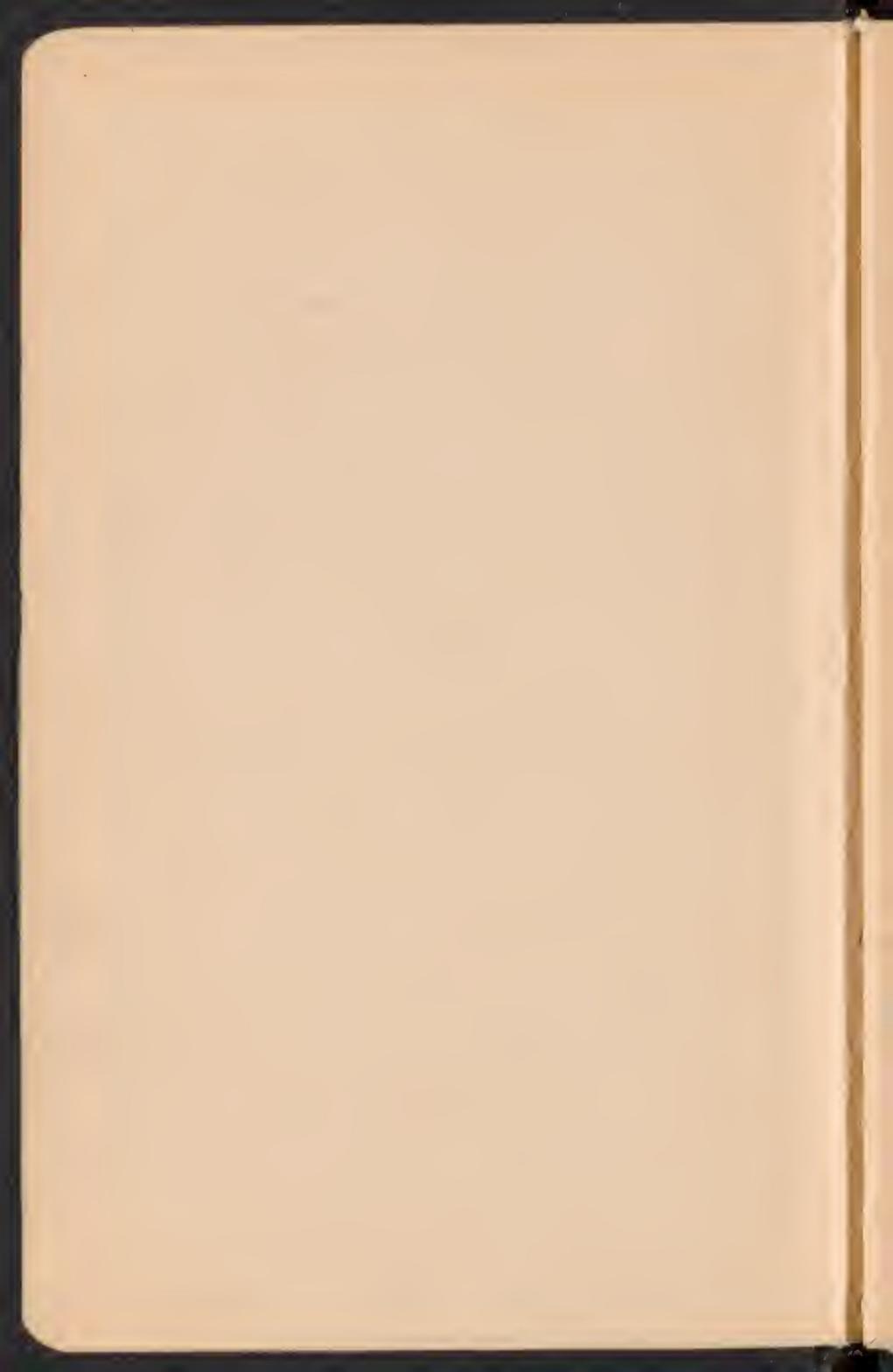


Record

RECORD OF THE WASHINGTON
UNIVERSITY EXPEDITION TO
PANAMA 1934-35 AFTER
JAN. 18-35 THIS BEING
UNDER THE LEADERSHIP OF
MR. A.A. HUNTER





Jan 19 - Finished the collections made yesterday at old Panama by Dr. Dodge and Mrs. and Miss Hunter. Spent rest of morning working on presses - things coming out of dryers very well. Went out to Pedro Miguel in late afternoon with Miss Hunter and collected some things - Worked up the Pedro Miguel collection this evening - nothing very startling - several glosses -

Jan. 20 - Went up to Chico with Mr. Hunter - went up to the foot of the hills above Chico looking for the river but it evidently went more to the right. Country mostly llanos with woods along streams - were pretty bold put feet water at noon and drank out of a little stagnant pool in a creek bed but no ill effects - Went down below town afterwards to the Chico river - collected along the road some coming back -

Jan 21 - Worked all day pressing up
all things from yesterday. Have a
vast amount of material - Doubtful
if will be able to get it all put
up before it goes bad -

Jan 22 - All day also on the Chepso
material - kept remarkably well
Not 93 numbers out. Packed up
the pickled material and some
more dry plants in a box to ship
out Thursday -

Jan. 23 - Worked changing dryers
Not out some of the smaller Chepso
material. Packed up and Mr. Hunter
called for me at 4:30 - Went over
to Taboga on the So much -

Jan. 24 - Went up the ridge trail
to the top of the island - got lost
going down a steep draw on
the far side and followed a
trail around the end of the
island - Put up the morning's
collection in the afternoon.

Jan 25. Went across the quebrada to the right of the hotel and up the ridge to the cross on the headland and beyond toward the far side - Island most abrupt and rocky on the other side.

Went back and took the ridge trail and followed down to the town and across the causeway to the small island. Had to hurry as the tide was coming up - Not a very beautiful tree (*plumeria?*) flowers most fragrant. Spent afternoon working up the collection.

Jan. 26. Up early to take the launch back to town - a most beautiful sunrise as we crossed the bay. Clouds a beautiful red pink over the hills. Wande to the west. Spent balance of the day going over the places. most of the things from Vapo came out.

Jan 27 - Went up the Rio Tecumen on the road to Chaco with Mr. Hunter. After crossing the river a most curious country of thick low brush (25 ft more or less) and dry washes. Many orchids found - probably the richest orchid section yet - many pleurostictas - orchidions - Pleiotaxis and others. The Tecumen much like many of the large quebradas up at the lake.

Jan 28 - Worked up the Tecumen collection

Jan 29 - Charged dayes - not ready to go up to El Valle tomorrow

Jan 30 - Took the 7:30 ferry and went up to the valley. Passed Cerro Trinidad again first to the right, on the road to Petrela. hope to climb it some day. Country about 20 miles or more from the valley shows signs of volcanic ash becoming deeper as you approach

Cross a very rough streak of bad
lands in climbing up to the pass.
Land all cut to pieces as far as
you can see - A high jagged
set of peaks surround the valley
through can be seen for many
miles - Not down in and
appropriated a house near the
Rio Indio Trail. Went up the
~~trail~~ for a couple miles collecting -
dense shade most of the way
following a stream -
Jan 31 - Spent day working up the
Indio Trail material - Mr. Hunter
went out and brought in some
things.

Feb. 1. Worked up the rest of the
Indio Trail and the things Mr.
Hunter brought in yesterday.

Feb. 2. Packed up the car and went
down to the lower valley and
followed the trail a way toward
the town of Auton - then back
and through the marshes to the
Auton river. High winds and
a fine mist blowing most of the

time - to digress a bit - this type
of weather seems to be common
here - called Bajarica by the
natives as it sores the crops
over the dry season. Saw a
plentiful group of *Gilia laudem*
radicans in flower in a marsh
along the Anton river. Left the
valle toward noon - had to be
hauled part of the way up to the
pass - road in poor condition but
all working on it. Stopped in
some small streams at Las Margaritas
to collect some frogs for Mr. Zeteele.

Feb - 3 - Worked up some of yesterday's
collection. Went in to Paurana in
the evening to hear the band concert
at the plaza -

Feb - 4 Worked on the valle collection -
finished up.

Feb - 5 - Changed dryers - many things
out of press. went out to the dam
for a few minutes in the afternoon.

Feb 6 - Packed a box to send back to the garden in the forenoon. Went over to Falfor Beach and worked out to the beach along in the afternoon collecting with Mr. Hunter. Most of the Country tide-water mangrove swamps. Picked up a few things along the beach.

Feb. 7 - Put up yesterday's collections

Feb - 8 - Went out to Madden's dam to try to get Francisco to go up the lake. Couldn't find him or anyone else - collected along the last census trail and in the R.R. forest general. Spent afternoon working up material.

Feb - 9 - Spent morning working on pressed. Mr. Hunter called for me at noon and we went up the Cleopatra road across the Rio Pococia and in to the South across the llanuras

To a hunting club la jagua
in a swamp near the headwaters
of the Rio Jagua. Spent balance of
day hunting around the
immediate vicinity - was quite
disappointed - found very dry
and the nearest bit of swamp
land was poor in specimens.

2-10- Up at 4:00 A.M. Took horses
across the swamp for a place
called Conga hill. Had a time
getting started - A sort of low
thorny scrub brush is common
in the swamps. Pitch black
and the horses complained by
refusing to go and standing
on their hind legs when
gently persuaded with a piece
of the same thorny scrub.
Not light enough to see about
the time we got to the Rio
Jagua - Conga hill proved to
be a perfectly flat stretch of
swamp - very good cockatoos
found a white tropical

water lily - 3 new apocynaceas
and a new variety of *Oroxylum
stipitatum* -

2-11. Back in Balboa - spent day
putting up the Congo hill
collection - things kept very
well -

2-12. Changed degrees hoping to
get enough out to leave for
Penonome - got out about 200
but wait at least twice that
many - better luck to-morrow.

2-13 - Changed places again - got
out about a hundred more - decided
to wait a day - Mr. Hartel
suffering from stomach trouble and
need more degrees -

2-14 - Got out about 150 more
degrees - spent rest of day getting
together supplies to go up
the country -

2-15 Left on the 8:00 o'clock ferry
and drive up to San Carlos -
High jagged blue peaks to the
north - Country after San Carlos
flattens out to long low
llanos - as flat as the Texas
panhandle - very dry and
little sign of cattle except
in marshy spots near rivers.
Penonome on the llanos but quite
near to the foot of the hills -
Trail (not road) over to La Pintada
very bad - many washes and gullies
apparently no attempt to repair
it - only traces of carts -
Finally stopped at an impossible
crossing at a river and walked
over to La Pintada about 5 miles.
Ordered horses for the morning
Visited the Alcalde (by request)
Seems white men don't get up
that way very early - Population
mostly Indian. Went back and
camped near the river for the
night.

2-16 - Walked up to La Pintada again - No sign of boy - horses - Alcalde or anyone else who would do anything - Finally got tired waiting and went up in the mountains on foot. Went up about 15 miles and got lost several times - Came out a clearing with many large trees which had been felled - Many orchids and other similar plants - Both of us loaded down with material - finally found the trail again and started back - Met an Indian boy with a horse and persuaded him to carry the things back to the col for a dollar - distance about 20 miles - Got in to Pasonome about dark - stayed in a native hotel -

2-17 - Mr. Hunter went back with the col and brought in another load from above pintada while I stayed back in town and worked up material -

- 2-18 - worked on things till about
11:00 - Presses full - packed up and
came down to Balboa - got in
Pretty late -
- 2-19 - Pressed up things - mostly
orchids - had to cook most of
them -
- 2-20 - Finished up the things
about noon - almost all former
things out of press - getting ready
to go up the Madden again
for orchids.
- 2-21 - Picked up from areas and
another man and went up the lake
paddled all the way - unable to
get the launch - Stopped at
Balamanca for lunch at noon.
Not in to the Palma station
about 4:30 - Went up the trail
in boat for an hour or so but
found little -

2-22 - Went overland through dense jungle for 7 to upper Bogoson - Constant heavy rain - Trail bad and slippery - Finally no trail at all - cut across country mostly following the ridges - Came on the river - in a place unknown to me - must have been within twelve miles or so of the Atlantic - river very fast running through rock gorges. Explored up and down stream for several miles - Found four plants of Sobralia Powellii - Beautiful large milk white flowers with a yellow tinged lip - Got back to the station rather earlier than we expected -

2-23 Went down the lake and gathered orchids in the mouth of Rio Chagres and up the Que. Tena villa - Collected some yellow tree coming down.

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2-24 - Packed up the material from Rio Boqueron -

2-25 - Went out on the Cruces trail and brought in a lot of wood material - much of it rather fragrant but road makes unavoideable -

2-26 - Worked up the Cruces trail things -

2-27 - Worked on Cruces Trail material and on pleases in morning and went with Mr. Hunter over around the old stages of Empire - Culebra cut and vicinity in the afternoon

2-28 - Worked up the Empire collection

3-1 - Still a few of the Empire things - Mr. Price and Dr. Moore arrived in the afternoon

3-2. Charged press - good
many things out.

3-3. Went over to Taboga again
for Tetramium seed - some plumaria
cuttings and more rock lockers -
only had about five hours on the
island -

3-4. Packed up a boat to ship
back - Worked on pleasure in the
afternoon -

3-5. Went up to Madden Pass
with Dr. Moore - Mr. Drury -
Mr. Hunter - took the launch
up the Pequine past the mouth
of Boqueron - very picturesque -

3-6. Worked up one or two
things from the lake and on
pleasures in general -

3-7. Went up the road to
Clepo as far as Record.

with Dr. Moore and Mr. Peirce along - Collected some things along the way -

3-8 - Pressed up the Pococia things and worked on peacock feathers.

3-9 - Went to Panama Vieja with Mr. Hunter in the morning - Followed the coast down to Belld Vista - Worked the beach almost entirely as the brush back from the beach had much of it been burned - Coast very rough and rocky the entire distance - Pressed up the morning find in the afternoon - Dr. Moore and Mr. Peirce left late in the afternoon for the States -

3-10 - Went over across Rio Tocumen again with Mr. Hunter after orchids - Not a lot of *Pleurothallis* *Bletia* - *Epidendrum* - *Chiaranthus* etc. - all lately being alive with

ants as usual cut the clumps up and ran with them to the river and washed out the ants - last day of Mr. Hunter's vacation -

3-11- Went across the isthmus with Dr. Currie to the Mojingo swamp. Went around in the swamp area in the morning. Very heavy timber with the forest top running about 150' d should hedge - too much shade to find a great deal in bloom. Went down to Clague's spire to the north at old Fort San Lorenzo in the afternoon. Many new things found here as there was much more light - a quite worth while trip.

3-12- Worked up the Mojingo swamp material.

3-13- Worked on peats - it got quite a bit dry. Will need more to go back to Mojingo.

3-14 - Got out some more traps -
Packed up ready to go back to the
Swamps -

3-15 - Went over on morning train -
Met Brown at Tatun - worked about
45 minutes getting supplies at the
commissary - Went over to the dock
by hand car - down the river to
the mouth - Old Fort San Lorenzo
Went pretty well over all the old
fort

3-16 - Worked up yesterdays collection
in the morning - Went down the
chases by row boat in the afternoon
Picked up some traps - worked a
few hrs in the evening -

3-17 - Finished up yesterdays
things - walked over the trail to -
wood San Lorenzo - immense
trees and some of the most
picturesque jungle but too dark
to be good collecting -

3-18 - Mr. Brown and Dr. - of the health dept. come down in the morning - they went across the swamps to near fort Sherman collecting mosquitoes - Went along - very jungle and very dark but got some good things - Packed up and came back to Balboa on evening train as all planes were full.

3-19 - Worked on yesterdays collection and changed dryers.

3-20 - Changed dryers - had many things wet.

3-21 - Some - changed dryers

3-22 - Went with Mr. Pewsey over to his place on the Rio Haterillo about a six mile walk from Madden Dam I should judge - good many new clearings - some of them just been burned - Very damp trail through heavy jungle across the continental divide - collecting

nothing extra - Mr Dewey a very interesting man personally and has an excellent nursery of citrus fruits with many new and import varieties -

3-23 - Worked on press -

3-24 - Charged on press in morning - went out to Falfan and loafed in the afternoon

3-25 - Took the morning train to Frijoles - Collected up the Frijolito river and the Pilcom and Agua Salada - Some things had not seen before -

3-26 - Worked up yesterday's things -

3-27 - Went over pedates -

3-28 - Went out to Juan Diaz and followed the Juan Diaz River back to the mountains - some new trees found -

3-29 - Pressed up the Juan Diaz
material -

3-30 - Changed presses -

3-31 - Changed presses - Mr. Hunter
pretty sick again -

4-1 - Changed presses

4-2 - " "

4-3 Went on the Chia-chira Trail
back to the town of Chira-Chira
and beyond to a government
searchlight station in the hills -

A fine view from the top - Retraced
to the village again and across
country by trail to Bella-rista
part way was by the old Cruces
trail - Paving still in good
conditions in spots - collecting
fuel - Much of the land under
cultivation - very dry and many
brush fires going -

4-4 - Worked up yesterdays collection

4-5 - Went out to Hodder Dam and picked up Francisco - he lake is entirely empty now so he had his canyons below the dam. Went down the slopes to Hambo - looking for Oncidium Parvula; as usual with the usual result - Collecting not particularly good as much of the land is in cultivation or second growth - very dry - try operated on Mr. Hunter today for an obstruction in the intestine.

4-6 - Woke up yesterday through Mr. Hunter died in Accon hospital at 10:55 P.M. A  grand old man -

4-7 - Spent the day quietly at home -

4-8 - Charged groceries -

4-9 - Charged groceries -

4-10 - Service for Mr. Hunter from the Episcopal church at 5:00 P.M.

- 4-11 - Charged planes -
- 4-12 - Packed a box to send to the
States
- 4-13 - Put practically everything out
of press -
- 4-14 Went over to Ospoga with
Mrs. Hunter. Collecting very poor -
- 4-15 practically nothing -
- 4-16 - Getting together supplies to go
up to Chiquito.
- 4-17 - Final packing up -
- 4-18 - Left on the 6:30 ferry - Very hot
and dry through Coate and Yaguas
provinces. High sand edged paths on the
right as usual in the same place
here. Road under construction and
very bad from Sona to Remedios.
Arrived in David about 7:00. David
alive with mosquitoes - but the road
for Concepcion about 2:00 A.M.

Camped about 3 near a river -

4-19 Drove on in to San Concepcion road used principally for ox carts and very poor and rough - left the car in a garage in Concepcion and got a man to haul the traps up to about two miles below El Volcan post office. Went out collecting in the afternoon -

4-20 - Put up yesterday's collection -

4-21 - Went up toward the Volcan early and collected in a river valley along the way - got quite a lot of orchids. Began to rain about noon and the clouds dropped down. Got a fresh horse and went on up on the llano near the Rio Chilique river - constant mist and rain - quite cold. Landscape suggests high alpine regions. Many plants of almost an alpine nature found - altitude about 6000 ft -

26.

4-22 - Put up yesterday's collection -
Had a hard earth quake about 1:30 A.M.

4-23 - Spent the day in bed - It was too
much rain and cold -

4-24 - Went down to Concepcion in
the early morning - the Volcan very
picturesque in the morning light -
long narrow bands of cloud floating
below the summit - Drove down
to David and took the train for
Boquete - Collected there in the
afternoon -

4-25 - Caught the train in Boquete
about 7:00 - Left David about 9:00
arrived in Balboa 8:30 P.M. - a tiresome
drive -

4-26 - put up the Boquete collection

4-27 - Went with George to a place
near Bejico collecting orchids - Quite
a nice haul -

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4-28- Went with F. M. Boulle across
from Chirera to near the Rio Tres Pinos
collecting orchids - A long hot
trail and collecting nothing extra -

4-29- Changed presses -

4-30- Changed dryers

5-1- Changed dryers -

5-2- Went with Mrs. Hunter to
El Valle - not a fairly good haul
of orchids - A high cloud and
much mist and rain -

5-3- Spent day packing to return -



